```
 NEWS EXPRESS  January 6 CURRENT WINDOWS VERSION IS V6.01a,
               CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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  * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *



FILE 'HOME' ENTERED AT 07:12:53 ON 14 MAR 2003

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 07:13:02 ON 14 MAR 2003
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STRUCTURE FILE UPDATES:    12 MAR 2003  HIGHEST RN 498527-50-7
DICTIONARY FILE UPDATES:   12 MAR 2003  HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available.  See HELP
PROPERTIES for more information.  See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10091500 aspartame derivative.str

L1      STRUCTURE UPLOADED

=> d l1
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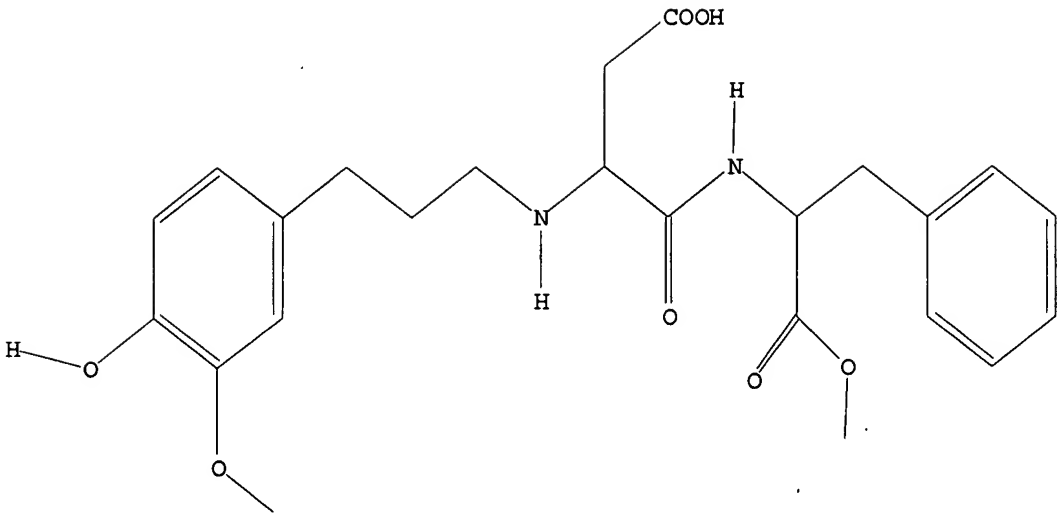
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 exact full
FULL SEARCH INITIATED 07:13:33 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 13 TO ITERATE

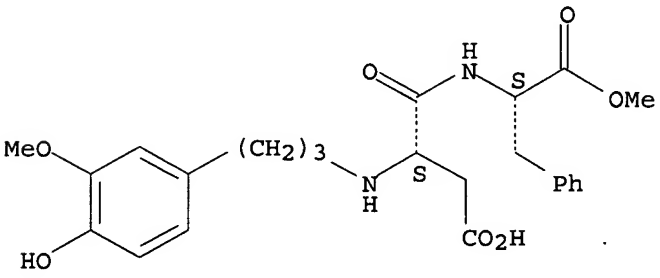
100.0% PROCESSED 13 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L2 1 SEA EXA FUL L1

=> d scan

L2 1 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(4-hydroxy-3-methoxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C24 H30 N2 O7

Absolute stereochemistry.



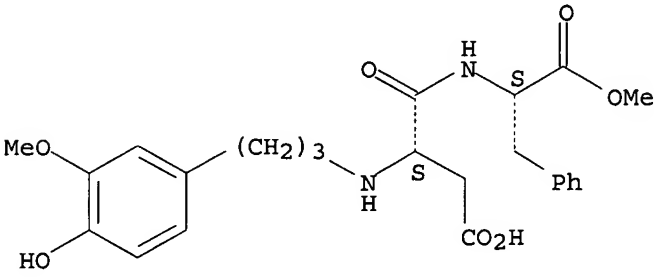
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> d l2

L2 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN 329326-75-2 REGISTRY
CN L-Phenylalanine, N-[3-(4-hydroxy-3-methoxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Ararame
FS STEREOSEARCH
MF C24 H30 N2 O7
SR CA
LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1962 TO DATE)
3 REFERENCES IN FILE CAPLUS (1962 TO DATE)

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	51.83	52.04

FILE 'CAPLUS' ENTERED AT 07:13:55 ON 14 MAR 2003
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FILE COVERS 1907 - 14 Mar 2003 VOL 138 ISS 12
FILE LAST UPDATED: 13 Mar 2003 (20030313/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l2
L3 3 L2

=> d l3 1-3 ti fbib abs

L3 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Gustatory responses of pigs to sixty compounds tasting sweet to humans
AN 2002:351144 CAPLUS
DN 137:336847
TI Gustatory responses of pigs to sixty compounds tasting sweet to humans
AU Nofre, C.; Glaser, D.; Tinti, J.-M.; Wanner, M.
CS Faculty of Medicine of Lyon Laennec, University of Lyon, Lyon, Fr.
SO Journal of Animal Physiology and Animal Nutrition (2002), 86(3-4), 90-96
CODEN: JAPNEF; ISSN: 0931-2439
PB Blackwell Wissenschafts-Verlag GmbH
DT Journal
LA English
AB The gustatory responses of pigs to 60 compds. perceived as sweet by humans
were studied via a semi-quant. behavioral method derived from the Richter two-bottle preference test. Among the 60 compds. tested 35 are effective in pigs, but with an effectiveness much lower in pigs than in humans. Lugduname and carrelame, which are the two most potent sweeteners in humans, are also the most effective compds. in pigs.
RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2003 ACS
TI Process for producing aspartyl dipeptide ester derivatives
AN 2001:833348 CAPLUS
DN 135:358168
TI Process for producing aspartyl dipeptide ester derivatives
IN Kawahara, Shigeru; Nagashima, Kazutaka; Takemoto, Tadashi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001085761	A1	20011115	WO 2001-JP3479	20010423

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,

BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 2000-137028 A 20000510

EP 1283213 A1 20030212 EP 2001-922023 20010423
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 2000-137028 A 20000510
WO 2001-JP3479 W 20010423

OS CASREACT 135:358168; MARPAT 135:358168

AB This document discloses a process for conveniently producing on an industrial scale in high yield N-[N-[3-(phenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester derivs., which are expected to be sweeteners, by reductively alkylating aspartame with 3-phenyl-2-propenyl aldehyde derivs. under hydrogen in the presence of a catalyst and a base.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2003 ACS

TI Process for producing and purifying aspartame derivative as sweetener

AN 2001:185780 CAPLUS

DN 134:223039

TI Process for producing and purifying aspartame derivative as sweetener

IN Amino, Yusuke; Yuzawa, Kazuko; Takemoto, Tadashi

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001018034	A1	20010315	WO 2000-JP5665	20000823

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 1999-253498 A 19990907

AU 2000067273	A5	20010410	AU 2000-67273	20000823
			JP 1999-253498 A	19990907
			WO 2000-JP5665 W	20000823
US 2002147361	A1	20021010	US 2002-91500	20020307
			JP 1999-253498 A	19990907
			WO 2000-JP5665 A1	20000823

OS CASREACT 134:223039

AB This document discloses the following : a method for industrially producing N-[N-[3-(3-methoxy-4-hydroxyphenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester which is useful as a sweetener, in particular, a process for producing the target compd. in a high yield by the reductive alkylation reaction of aspartame with 3-(3-methoxy-4-hydroxyphenyl)propionaldehyde or its deriv.; a method of effectively purifying the target compd. contaminated with impurities invading thereinto at various prodn. stages (involving methods other than the above-described reductive alkylation), more particularly, a method of sepg. the target compd. in the form of highly pure crystals; the crystals;

sweeteners contg. the same; and utilization thereof in various products which are to be sweetened.
RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.91	60.95

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.95	-1.95

FILE 'REGISTRY' ENTERED AT 07:16:35 ON 14 MAR 2003
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7
DICTIONARY FILE UPDATES: 12 MAR 2003 HIGHEST RN 498527-50-7

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

Please note that search-term pricing does apply when conducting SmartSELECT searches.

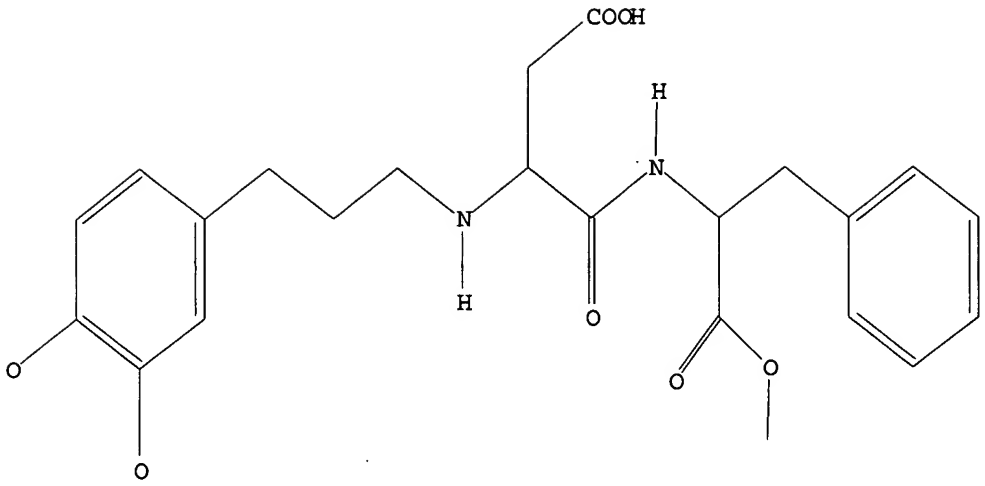
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:
http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=>
Uploading 10091500 aspartame derivative sss.str

L4 STRUCTURE UPLOADED

=> d l4
L4 HAS NO ANSWERS
L4 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l4 sss full
FULL SEARCH INITIATED 07:17:08 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 196 TO ITERATE

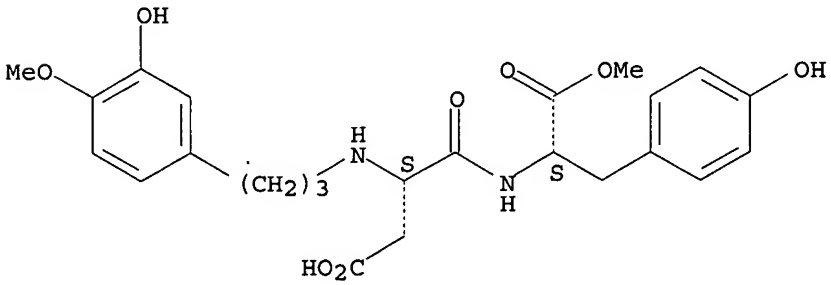
100.0% PROCESSED 196 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01

L5 20 SEA SSS FUL L4

=> d scan

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Tyrosine, N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C24 H30 N2 O8

Absolute stereochemistry.

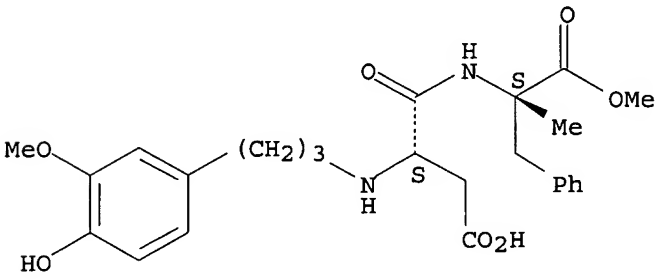


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):20

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(4-hydroxy-3-methoxyphenyl)propyl]-L-.alpha.-aspartyl-.alpha.-methyl-, 2-methyl ester (9CI)
MF C25 H32 N2 O7

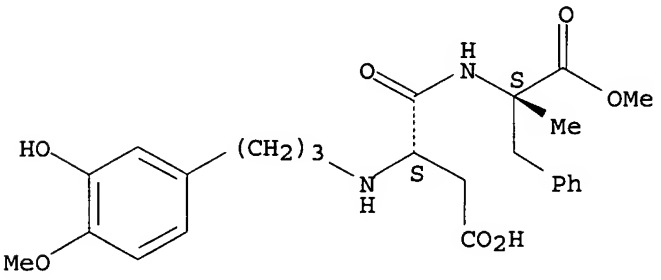
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl-.alpha.-methyl-, 2-methyl ester (9CI)
MF C25 H32 N2 O7

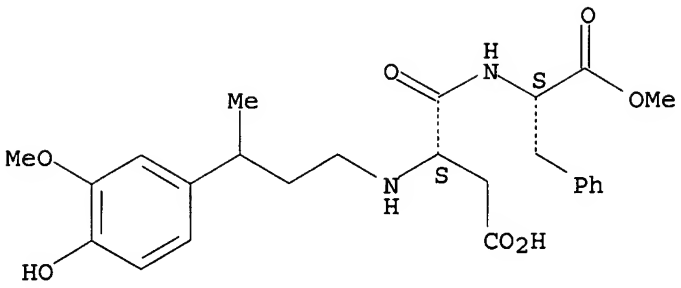
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(4-hydroxy-3-methoxyphenyl)butyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C25 H32 N2 O7

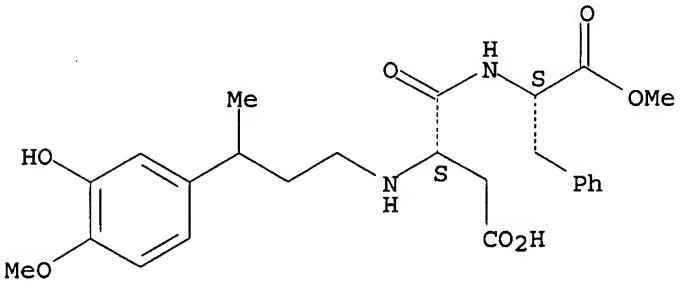
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(3-hydroxy-4-methoxyphenyl)butyl]-L-.alpha.-aspartyl-
, 2-methyl ester (9CI)
MF C25 H32 N2 O7

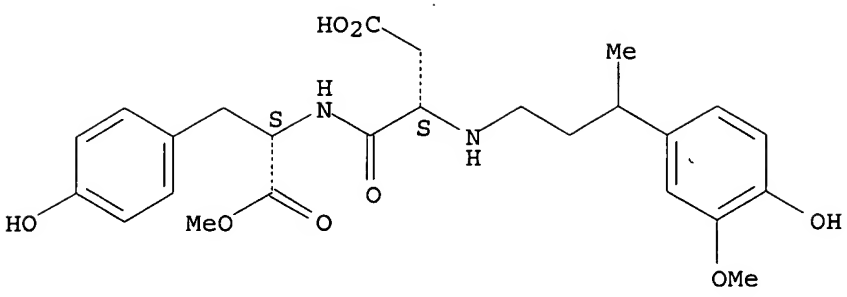
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Tyrosine, N-[3-(4-hydroxy-3-methoxyphenyl)butyl]-L-.alpha.-aspartyl-,
2-methyl ester (9CI)
MF C25 H32 N2 O8

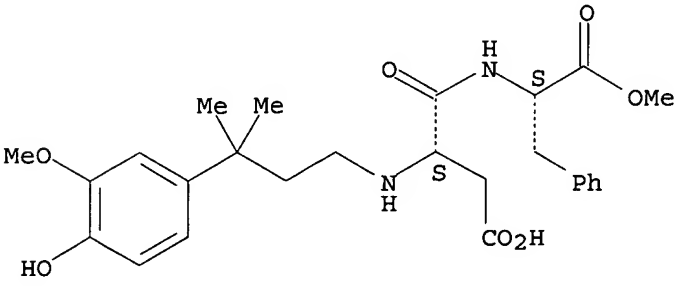
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(4-hydroxy-3-methoxyphenyl)-3-methylbutyl]-L-.alpha.-
aspartyl-, 2-methyl ester (9CI)
MF C26 H34 N2 O7

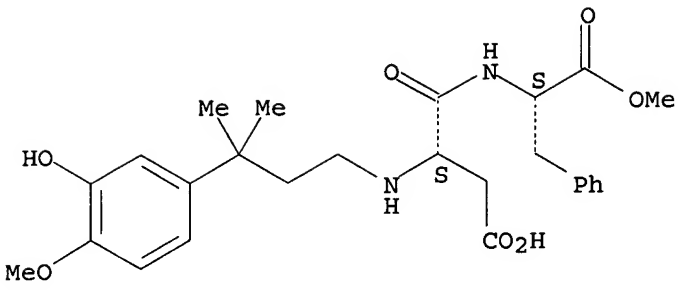
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl]-L-.alpha.-
aspartyl-, 2-methyl ester (9CI)
MF C26 H34 N2 O7

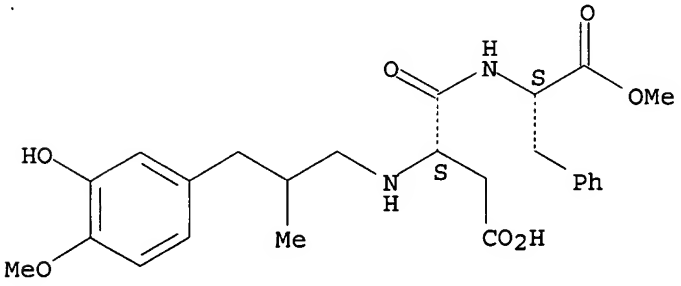
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3-hydroxy-4-methoxyphenyl)-2-methylpropyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C25 H32 N2 O7

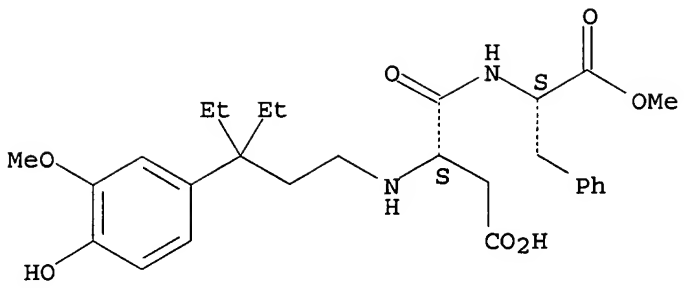
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-ethyl-3-(4-hydroxy-3-methoxyphenyl)pentyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C28 H38 N2 O7

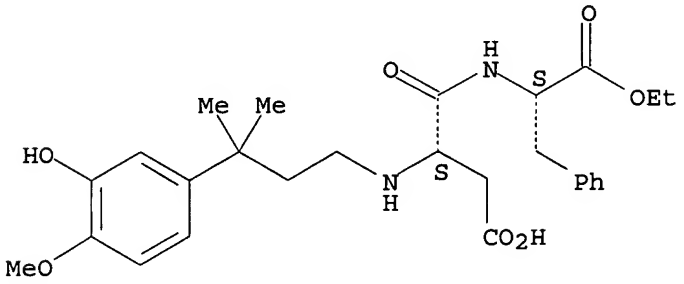
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl]-L-.alpha.-
aspartyl-, 2-ethyl ester (9CI)
MF C27 H36 N2 O7

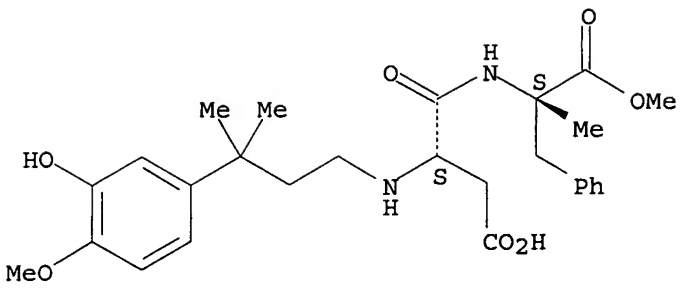
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl]-L-.alpha.-
aspartyl-.alpha.-methyl-, 2-methyl ester (9CI)
MF C27 H36 N2 O7

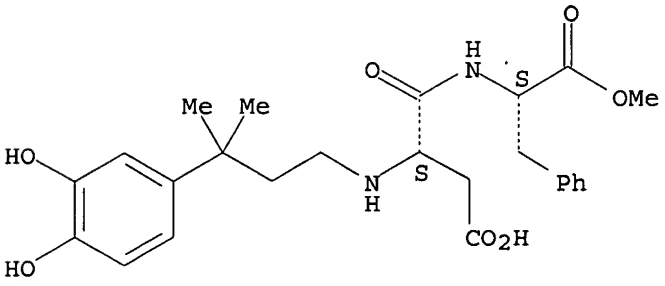
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3,4-dihydroxyphenyl)-3-methylbutyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C25 H32 N2 O7

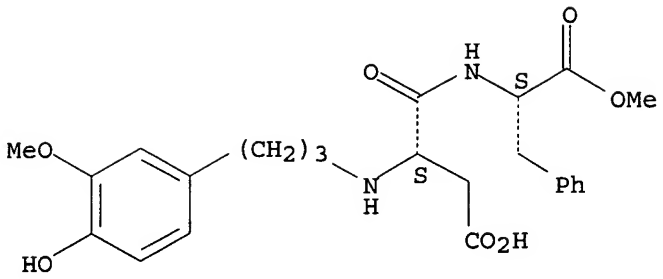
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(4-hydroxy-3-methoxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C24 H30 N2 O7

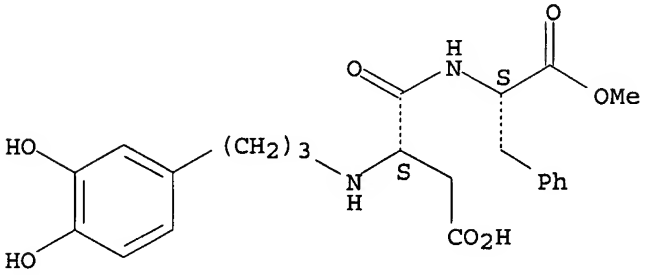
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3,4-dihydroxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C23 H28 N2 O7

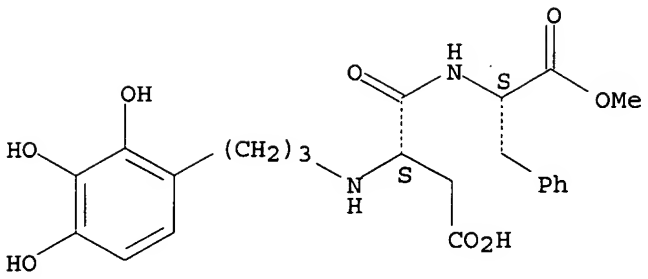
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(2,3,4-trihydroxyphenyl)propyl]-L-.alpha.-aspartyl-,
2-methyl ester (9CI)
MF C23 H28 N2 O8

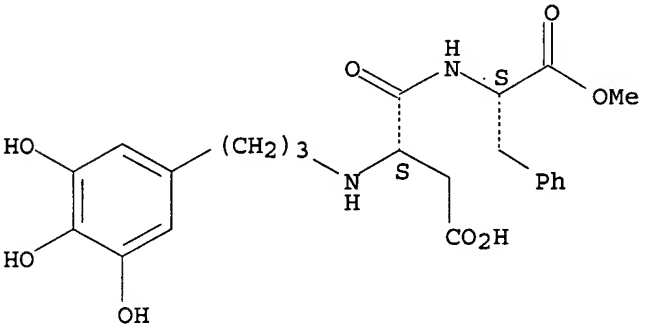
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine,
N-[3-(3,4,5-trihydroxyphenyl)propyl]-L-.alpha.-aspartyl-,
2-methyl ester (9CI)
MF C23 H28 N2 O8

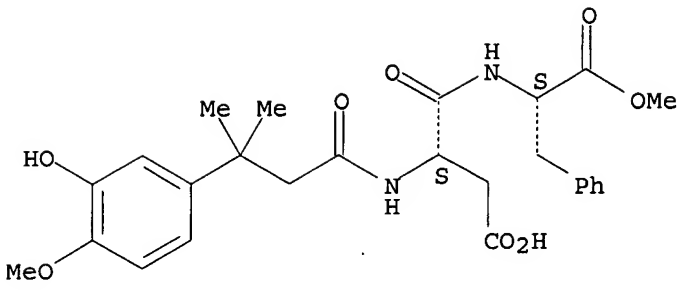
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3-hydroxy-4-methoxyphenyl)-3-methyl-1-oxobutyl]-L-
.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C26 H32 N2 O8

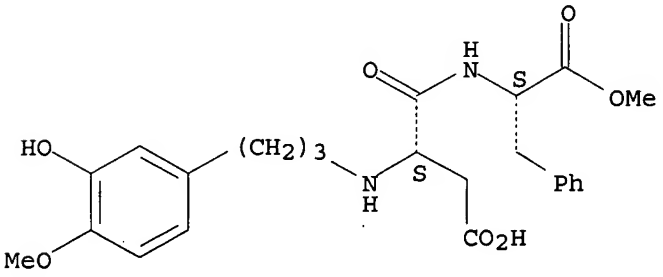
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C24 H30 N2 O7

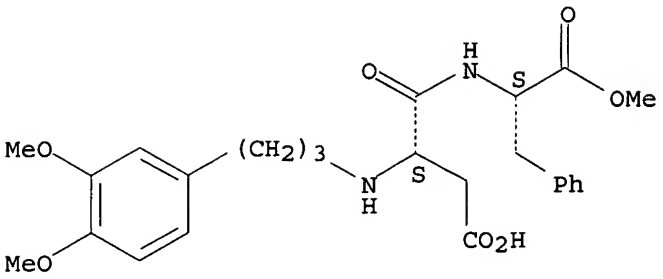
Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L5 20 ANSWERS REGISTRY COPYRIGHT 2003 ACS
IN L-Phenylalanine, N-[3-(3,4-dimethoxyphenyl)propyl]-L-.alpha.-aspartyl-, 2-methyl ester (9CI)
MF C25 H32 N2 O7

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	148.55	209.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.95

FILE 'CAPLUS' ENTERED AT 07:17:35 ON 14 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 14 Mar 2003 VOL 138 ISS 12
FILE LAST UPDATED: 13 Mar 2003 (20030313/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l5
L6 14 L5

=> d his

(FILE 'HOME' ENTERED AT 07:12:53 ON 14 MAR 2003)

FILE 'REGISTRY' ENTERED AT 07:13:02 ON 14 MAR 2003

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L5           20 SEARCH L4 SSS FULL

     FILE 'CAPLUS' ENTERED AT 07:17:35 ON 14 MAR 2003
L6           14 L5

=> l6 not l3
L7           11 L6 NOT L3

=> d l7 1-11 ti

L7   ANSWER 1 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Process for producing cinnamyl aldehyde derivatives and use thereof as
     intermediate for aspartame derivative

L7   ANSWER 2 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Aspartame derivative crystals

L7   ANSWER 3 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyric acid
     derivative as novel intermediate for sweetener with high sweetness and
     process for producing the same

L7   ANSWER 4 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Process for producing N-(3-methyl-3-phenylbutyl)aspartame derivative,
     crystals thereof, novel production of aldehyde intermediates therefor and
     process for producing the intermediate

L7   ANSWER 5 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Sweetener compositions with high degree of sweetness having improved
     sweetness, supplements and utilization thereof

L7   ANSWER 6 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Sweetener compositions with high degree of sweetness having improved
     sweetness, supplements and utilization thereof

L7   ANSWER 7 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Process for the production of aspartyldipeptide ester derivatives, novel
     intermediates therefor and process for the production of the
intermediates

L7   ANSWER 8 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of aspartyl dipeptides and their use as sweeteners

L7   ANSWER 9 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   N-Alkylaspartyldipeptide ester derivatives and sweeteners

L7   ANSWER 10 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Novel aspartyl dipeptide ester derivatives as sweeteners

L7   ANSWER 11 OF 11  CAPLUS  COPYRIGHT 2003 ACS
TI   Preparation of aspartyl dipeptide ester derivatives as sweeteners
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=> d l7 1-11 ti fbib abs

L7 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Process for producing cinnamyl aldehyde derivatives and use thereof as intermediate for aspartame derivative
AN 2001:851092 CAPLUS
DN 135:371997
TI Process for producing cinnamyl aldehyde derivatives and use thereof as intermediate for aspartame derivative
IN Mori, Kenichi; Fujita, Shinji; Funakoshi, Nao; Takemoto, Tadashi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001087813	A1	20011122	WO 2001-JP3545	20010424
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			JP 2000-142811 A	20000516
EP 1283197	A1	20030212	EP 2001-922073	20010424
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
			JP 2000-142811 A	20000516
			WO 2001-JP3545 W	20010424

OS CASREACT 135:371997; MARPAT 135:371997
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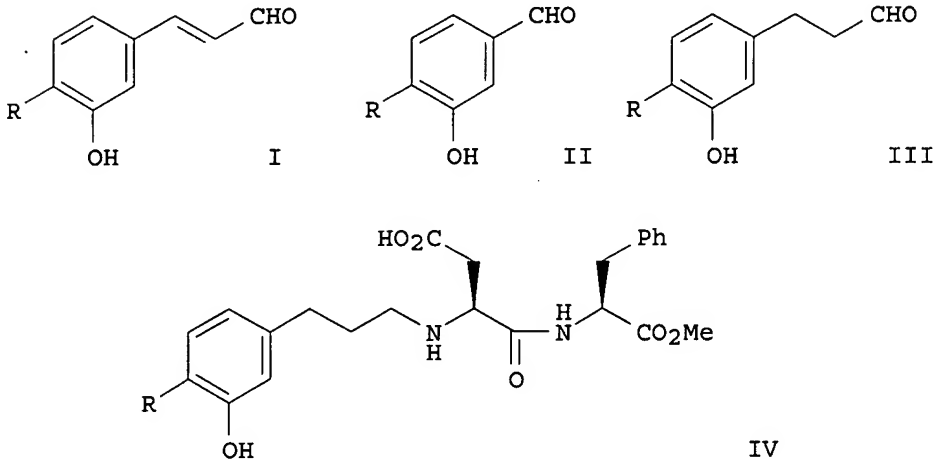

AB Described is an industrial process for conveniently and efficiently

producing highly pure cinnamyl aldehyde derivs. (I; R = H, C1-4 alkyl or alkoxy) such as (2E)-(3-hydroxy-4-methoxy)cinnamyl aldehyde which comprises reacting a benzaldehyde deriv. (II; R = same as above) (for example, isovanillin) with acetaldehyde in the presence of an alkali, preferably adding acetaldehyde in portions in an aq. soln. at a low temp. The cinnamyl aldehyde derivs. (I) thus obtained are selectively reduced into 3-(3-hydroxy-4-substituted phenyl)propionaldehydes (III; R = same as above). These compds. III are further subjected to reductive alkylation with aspartame to efficiently give N-[N-[3-(3-hydroxy-4-substituted phenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me esters (IV; R = H, C1-4 alkyl or alkoxy), which are useful as sweeteners with high sweetness. Thus, 121.72 g isovanillin and 320 g NaOH were dissolved in 2,000 mL H2O and cooled to -10.degree., followed by continuously adding 290 g 28 wt.% aq. acetaldehyde over a period of 45 h, and the resulting mixt. was stirred for 1 h, treated with 768.1 g 36 wt.% aq. HCl, and filtered to give 324 g cryst. product. The latter product was dispersed in 500 mL H2O at 25.degree., treated with 97.5 g 25 wt.% aq. NaOH for dissoln., stirred with 4 g activated charcoal and 16 g celite, and filtered. The filtrate was neutralized with 55.4 g 36 wt.% aq. HCl to give 185.5 g cryst. product which was vacuum-dried, dispersed in 275 mL MeOH at 60.degree., stirred for 2 h, cooled to room temp., and filtered to give, after drying the wet crystals, 83.2 g (2E)-3-hydroxy-4-methoxycinnamaldehyde (98% purity) in 57% yield. The latter compd. (5.00 g) and 300 mg 5% Pd-Al2O3 were added to 80 mL MeOH and stirred under H atm. at 35.degree. for 24 h, followed by filtration for removal of the catalyst and washing the catalyst with 10 mL MeOH, to give a MeOH soln. of 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (87% yield). The latter soln. (8.15 g) contg. 1.50 g of the aldehyde and 2.57 g aspartame were added to a 4:1 mixt. of MeOH and H2O, followed by adding 0.7 g 10% Pd-C contg. 50% H2O, and the resulting mixt. was stirred at 35.degree. under H atm. for 48 h to give 71% N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester.

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Aspartame derivative crystals
AN 2001:489419 CAPLUS
DN 135:60486
TI Aspartame derivative crystals
IN Nagashima, Kazutaka; Aoki, Yuuichi; Ono, Eriko; Takemoto, Tadashi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 29 pp.
CODEN: PIXXD2
DT Patent.
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001047949	A1	20010705	WO 2000-JP9247	20001225

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,

SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 1999-373257 A 19991228

AU 2001022259 A5 20010709 AU 2001-22259 20001225
JP 1999-373257 A 19991228
WO 2000-JP9247 W 20001225

EP 1245573 A1 20021002 EP 2000-985895 20001225
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
JP 1999-373257 A 19991228
WO 2000-JP9247 W 20001225

BR 2000016316 A 20021203 BR 2000-16316 20001225
JP 1999-373257 A 19991228
WO 2000-JP9247 W 20001225

US 2003009050 A1 20030109 US 2002-183652 20020628
JP 1999-373257 A 19991228
WO 2000-JP9247 A120001225

AB Com. favorable crystals of N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-asparty1]-L-phenylalanine-Me ester (I) were given. Compared to amorphous aspartame, I have better stability, and higher purity and sweetness. Physicochem. characteristics of the I crystals were also given.

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyric acid derivative as novel intermediate for sweetener with high sweetness and process for producing the same

AN 2001:396837 CAPLUS

DN 135:5819

TI Preparation of 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyric acid derivative as novel intermediate for sweetener with high sweetness and process for producing the same

IN Kawahara, Shigeru; Mori, Kenichi; Nagashima, Kazutaka; Takemoto, Tadashi

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001038297	A1	20010531	WO 2000-JP7913	20001109

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 1999-328100 A 19991118

AU 2001013052 A5 20010604 AU 2001-13052 20001109
JP 1999-328100 A 19991118
WO 2000-JP7913 W 20001109

EP 1236713 A1 20020904 EP 2000-974890 20001109
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, IE, SI, LT, LV, FI, RO, MK, CY, AL
JP 1999-328100 A 19991118
WO 2000-JP7913 W 20001109

OS CASREACT 135:5819; MARPAT 135:5819

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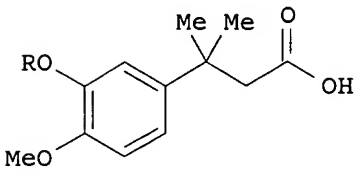

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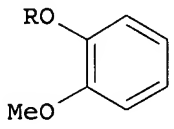

II

AB The title compds. (I; R = sulfonyl-type protecting group) can be obtained by substituting the substituent at the 3-position of the benzene ring of a butyric acid deriv. which can be easily and efficiently produced by reacting a hydroxyl-protected 2-methoxyphenol (II; R = same as above), wherein the hydroxyl group of 2-methoxyphenol is protected in the form of a sulfonate, with 3-methylcrotonic acid in the presence of an acid. By further converting the carboxyl group into a formyl group, 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyraldehyde can be easily produced. This aldehyde deriv. can be easily derived into a compd., which is excellent as a sweetener with a high sweetness, by reductive alkylation with aspartame. Thus, 104 g AlCl3 was added to a soln. of 240 g 2-methanesulfonyloxyanisole and 39 g 3-methylcrotonic acid, stirred at 70.degree. for 5 h and 100.degree. for 2 h, cooled to room temp., treated with 390 mL 6 N HCl, stirred vigorously for 3 h, and extd. with 300 mL CH2Cl2. The org. layer was extd. with 400 mL 2 N NaOH and the sepd. aq. layer was acidified with 6 N HCl, and extd. twice with 300 mL CH2Cl2. The org. layer was concd. under reduced pressure to give a residue contg. 3-(3-methanesulfonyloxy-4-methoxyphenyl)-3-methylbutanoic acid which was treated with 300 mL 6 N NaOH, stirred at 100.degree. for 4 h, cooled to room temp., acidified with 6 N HCl, and extd. with EtOAc to give, after evapn. of the solvent from the ext. and recrystn. from toluene, 37.9% 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutanoic acid (III). III (13.6 g), 22.8 g pivalic acid anhydride, and 100 mL acetone were enclosed in a high pressure hydrogenation app., purged by bubbling N for 30 min, treated with a soln. of 137 mg Pd(OAc)2 and 930 mg tri(p-tolyl)phosphine in 5 mL THF, and stirred at 80.degree. under 5 MPa hydrogen pressure to give, after evapn. of acetone and column chromatog., 80% 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyraldehyde (IV). Aspartame (8.45 g) was added to a soln. of 6.68 g IV in 272 mL 80% aq. methanol and the resulting slurry was hydrogenated in the presence of 2.86 g 10% Pd-C (50% water content) at 25.degree. for 24 h, filtered, and the filtrated was treated with 190 mL water and extd. with 250 mL PhMe. The sepd. methanol-water layer was concd. under reduced pressure to .apprx.1/2 wt., cooled from 75.degree. to 5.degree., and filtered to collect the pptd. crystals to give, after

crystn. from 50% aq. MeOH, 67.6% N-[N-[3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester (98% purity), which is a sweetening agent with high sweetness (no data).

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Process for producing N-(3-methyl-3-phenylbutyl)aspartame derivative, crystals thereof, novel production of aldehyde intermediates therefor and process for producing the intermediate

AN 2001:283984 CAPLUS

DN 134:296101

TI Process for producing N-(3-methyl-3-phenylbutyl)aspartame derivative, crystals thereof, novel production of aldehyde intermediates therefor and process for producing the intermediate

IN Kawahara, Shigeru; Nagashima, Kazutaka; Mori, Kenichi; Takemoto, Tadashi; Ono, Eriko

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001027142	A1	20010419	WO 2000-JP6933	20001004
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			JP 1999-288207 A	19991008
			JP 1999-288208 A	19991008
			JP 1999-294409 A	19991015
			JP 1999-328099 A	19991118
AU 2000075567	A5	20010423	AU 2000-75567	20001004
			JP 1999-288207 A	19991008
			JP 1999-288208 A	19991008
			JP 1999-294409 A	19991015
			JP 1999-328099 A	19991118
			WO 2000-JP6933 W	20001004
EP 1219633	A1	20020703	EP 2000-964672	20001004
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
			JP 1999-288207 A	19991008
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			JP 1999-294409 A	19991015
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BR 2000014565	A	20021119	BR 2000-14565	20001004
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			JP 1999-288208 A	19991008
			JP 1999-294409 A	19991015
			JP 1999-328099 A	19991118
			WO 2000-JP6933 W	20001004
US 2002132032	A1	20020919	US 2002-117205	20020408

JP 1999-288207 A 19991008
JP 1999-288208 A 19991008
JP 1999-294409 A 19991015
JP 1999-328099 A 19991118
WO 2000-JP6933 A120001004

OS CASREACT 134:296101; MARPAT 134:296101

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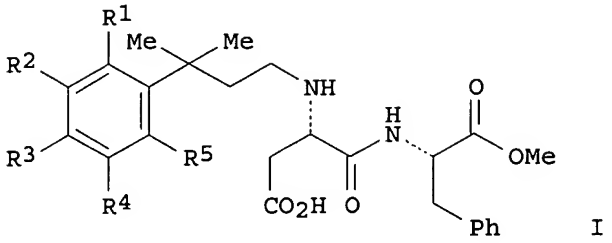

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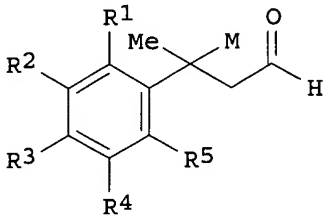

II

AB The title compds. (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, C2-3 hydroxyalkoxy; or R1 and R2 or R2 and R3 together represent methylenedioxy) are prepd. by reductive alkylation of aspartame with 3-methyl-3-phenylbutryaldehyde derivs. (II; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkoxy; or R1 and R2 or R2 and R3 together represent methylenedioxy). This process is industrially advantageous since these compds. are readily crystd. and sepd. in high purity from products contg. impurities. These compds. are useful as sweeteners having high degree of sweetness for food or beverages (no data). Thus, 3-(3-Hydroxy-4-methoxyphenyl)-3-methylbutyraldehyde (III) was prepd. by treatment of 3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyric acid (IV) with pivalic anhydride in acetone for 30 min and hydrogenation in the presence of Pd(OAc)2 and tri(p-tolyl)phosphine under hydrogen pressure of 5 MPa at 80.degree. for 24. IV was obtained by reacting 2-bromoanisole with 3-methylcrotonic acid in the presence of AlCl3 at 70.degree. for 5 h and hydroxylation of the resulting 3-(3-bromo-4-methoxyphenyl)-3-methylbutyric acid with NaOH in the presence of CuSO4.5H2O in distd. water at room temp. for 1 h and 160.degree. for 10 h.

Aspartame and III were added to 80% aq. MeOH, stirred at 40.degree., hydrogenated over 10% Pd-C under hydrogen atm. at 25.degree. for 24 h, and

filtered for removing the catalyst, followed by washing the catalyst with methanol, the combined filtrate was treated with waler, and extd. with toluene. The sepd. aq. methanol phase was concd. under reduced pressure to .apprx.1/2 wt., and cooled from 75.degree. to 5.degree. for crystn. The sepd. crystals were recrystd. from 50% aq. MeOH to give 67.6% N-[N-[3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl]-L-<a-aspartyl]-L-phenylalanine 1-Me ester as white crystals.

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Sweetener compositions with high degree of sweetness having improved sweetness, supplements and utilization thereof
AN 2001:265445 CAPLUS
DN 134:265559
TI Sweetener compositions with high degree of sweetness having improved sweetness, supplements and utilization thereof
IN Ishii, Shoichi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025263	A1	20010412	WO 2000-JP6629	20000926
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1999-284344 A	19991005
				JP 1999-284345 A	19991005
	JP 2001103925	A2	20010417	JP 1999-284344	19991005
	JP 2001103926	A2	20010417	JP 1999-284345	19991005
	AU 2000073222	A5	20010510	AU 2000-73222	20000926
				JP 1999-284344 A	19991005
				JP 1999-284345 A	19991005
				WO 2000-JP6629 W	20000926
	EP 1223175	A1	20020717	EP 2000-961240	20000926
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
				JP 1999-284344 A	19991005
				JP 1999-284345 A	19991005
				WO 2000-JP6629 W	20000926
	BR 2000014492	A	20020820	BR 2000-14492	20000926
				JP 1999-284344 A	19991005
				JP 1999-284345 A	19991005
				WO 2000-JP6629 W	20000926
	US 2003044502	A1	20030306	US 2002-115937	20020405
				JP 1999-284344 A	19991005
				JP 1999-284345 A	19991005
				WO 2000-JP6629 A1	20000926

OS MARPAT 134:265559
AB Sweetener compns. similar to sucrose are obtained by blending aspartyl dipeptide ester derivs. (I, Markush structure claimed) such as N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester with at least one compd. selected from the group comprising saccharides and sugar alcs., in the form of solns. These derivs. I are added to improve the taste of beverages.
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Sweetener compositions with high degree of sweetness having improved sweetness, supplements and utilization thereof
AN 2001:265444 CAPLUS
DN 134:265558
TI Sweetener compositions with high degree of sweetness having improved sweetness, supplements and utilization thereof
IN Ishii, Shoichi
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 86 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001025262	A1	20010412	WO 2000-JP6628	20000926
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
			JP 1999-283505 A	19991004
			JP 1999-283506 A	19991004
			JP 1999-284346 A	19991005
AU 2000073221	A5	20010510	AU 2000-73221	20000926
			JP 1999-283505 A	19991004
			JP 1999-283506 A	19991004
			JP 1999-284346 A	19991005
			WO 2000-JP6628 W	20000926
EP 1221448	A1	20020710	EP 2000-961239	20000926
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
			JP 1999-283505 A	19991004
			JP 1999-283506 A	19991004
			JP 1999-284346 A	19991005
			WO 2000-JP6628 W	20000926
BR 2000014454	A	20020820	BR 2000-14454	20000926
			JP 1999-283505 A	19991004
			JP 1999-283506 A	19991004
			JP 1999-284346 A	19991005
			WO 2000-JP6628 W	20000926

OS MARPAT 134:265558
AB Sweetener compns. similar to sucrose are obtained by blending aspartyl dipeptide ester derivs. (I, Markush structure claimed) such as N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-<a-aspartyl]-L-phenylalanine 1-Me ester with at least one compd. selected from the group comprising aspartame, saccharides, sugar alcs. and oligosaccharides, so as to enhance the taste of I. These derivs. I are added to improve the taste of beverages and pharmaceuticals.
RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

AN 2001:265443 CAPLUS

DN 134:281142

TI Process for the production of aspartyldipeptide ester derivatives, novel intermediates therefor and process for the production of the intermediates

IN Nagashima, Kazutaka; Aoki, Yuuichi; Takemoto, Tadashi; Amino, Yusuke; Funakoshi, Nao; Ono, Eriko

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 39 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025260	A1	20010412	WO 2000-JP6626	20000926
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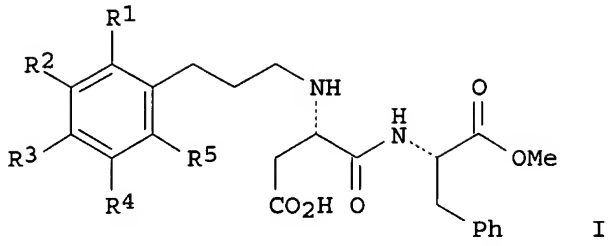
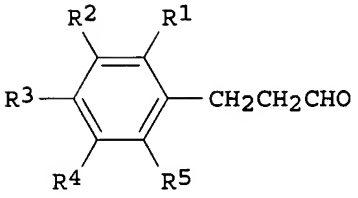
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1999-287398 A	19991007
				JP 1999-371284 A	19991227
	AU 2000073219	A5	20010510	AU 2000-73219	20000926
				JP 1999-287398 A	19991007
				JP 1999-371284 A	19991227
				WO 2000-JP6626 W	20000926
	EP 1231215	A1	20020814	EP 2000-961237	20000926
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
				JP 1999-287398 A	19991007
				JP 1999-371284 A	19991227
				WO 2000-JP6626 W	20000926
	US 2002133037	A1	20020919	US 2002-117196	20020408
				JP 1999-287398 A	19991007
				JP 1999-371284 A	19991227
				WO 2000-JP6626 A1	20000926

OS CASREACT 134:281142; MARPAT 134:281142

GI



I



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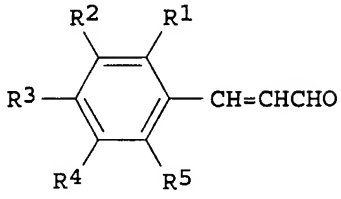


III

AB Industrial and efficient processes for producing aspartyldipeptide ester derivs. of general formula (I; R1-R5 = H, OH, C1-3 alkoxy, C1-3 alkyl, benzyloxy, C2-3 hydroxyalkyloxy; or R1 and R2 or R2 and R3 together represents methylenedioxy), which are expected to serve as sweetener (no data), comprise reductive alkylation of aspartame with propionaldehydes or cinnamaldehydes of general formulas (II) and (III) in the presence of a catalyst. Particularly, described are an industrial and efficient process for producing N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-aspartyl]-L-phenylalanine 1-Me ester (IV) which is excellent as high sweetener; useful and advantageous intermediates for the process; and efficient processes for producing the intermediates. Thus, 5.89 g aspartame and 3.42 g 3-(3-hydroxy-4-methoxyphenyl)propionaldehyde (prepn. given) were added to 200 mL 80% aq. methanol, stirred at 40.degree. for a while, and hydrogenated in the presence of 1.78 10% Pd-C at 0.1 M Pa and 40.degree. for 40 h to give 78.9% IV.

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

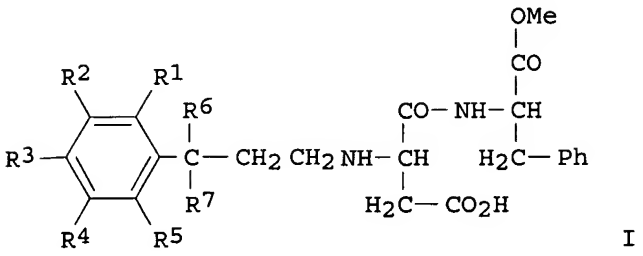
L7 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of aspartyl dipeptides and their use as sweeteners
AN 2001:252943 CAPLUS
DN 134:266568
TI Preparation of aspartyl dipeptides and their use as sweeteners
IN Amino, Yusuke; Takemoto, Tadashi; Yuzawa, Kazuko; Nakamura, Ryoichiro
PA Ajinomoto Co., Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001097998	A2	20010410	JP 1999-281920	19991001
	WO 2001025261	A1	20010412	WO 2000-JP6627	20000926

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,

CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU,
LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD,
SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU,
ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
JP 1999-281920 A 19991001

OS MARPAT 134:266568
GI



I

AB Title dipeptides I (R1-R5 = H, OH; .gtoreq.2 of R1-R5 = OH; R6, R7 = H, C1-3 alkyl) or their salts are prepd. Thus, .beta.-O-benzyl-L-.alpha.-aspartyl-L-phenylalanine Me ester was treated with 3-(2,4-dibenzyloxyphenyl)-2-propenylaldehyde in the presence of NaB(OAc)3H in AcOH to give
N-[N-[3-(2,4-dibenzyloxyphenyl)-2-propenyl]-.beta.-O-benzyl-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester, which was hydrogenated over Pd/C to afford I (R1 = R3 = OH, R2 = R4 = R5-R7 = H). The product tasted 10,000 times sweeter than sucrose.

L7 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2003 ACS
TI N-Alkylaspartyldipeptide ester derivatives and sweeteners
AN 2000:210206 CAPLUS
DN 132:236239
TI N-Alkylaspartyldipeptide ester derivatives and sweeteners
IN Amino, Yusuke; Yuzawa, Kazuko; Takemoto, Tadashi; Nakamura, Ryoichiro
PA Ajinomoto Co., Inc., Japan
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2
DT Patent .
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000017230	A1	20000330	WO 1999-JP4977	19990910
	W: AU, BR, BY, CA, CN, CZ, HU, IL, IN, JP, KR, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US, VN, ZA				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1998-264252 A	19980918
				JP 1999-169419 A	19990616
	CA 2344314	AA	20000330	CA 1999-2344314	19990910
				JP 1998-264252 A	19980918
				JP 1999-169419 A	19990616

				WO 1999-JP4977 W 19990910
	AU 9956501	A1	20000410	AU 1999-56501 19990910
	AU 748136	B2	20020530	
				JP 1998-264252 A 19980918
				JP 1999-169419 A 19990616
				WO 1999-JP4977 W 19990910
	BR 9913779	A	20010710	BR 1999-13779 19990910
				JP 1998-264252 A 19980918
				JP 1999-169419 A 19990616
				WO 1999-JP4977 W 19990910
	EP 1114828	A1	20010711	EP 1999-943302 19990910
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, IE, FI, RO			
				JP 1998-264252 A 19980918
				JP 1999-169419 A 19990616
				WO 1999-JP4977 W 19990910
	NZ 510439	A	20020927	NZ 1999-510439 19990910
				JP 1998-264252 A 19980918
				JP 1999-169419 A 19990616
				WO 1999-JP4977 W 19990910
	NO 2001001156	A	20010509	NO 2001-1156 20010307
				JP 1998-264252 A 19980918
				JP 1999-169419 A 19990616
				WO 1999-JP4977 W 19990910
	US 2001039357	A1	20011108	US 2001-809197 20010316
				JP 1998-264252 A 19980918
				JP 1999-169419 A 19990616
				WO 1999-JP4977 W 19990910

OS MARPAT 132:236239

AB N-alkylaspartyldipeptide ester derivs. such as N-[N-[3-(3-hydroxy-4-methoxyphenyl)-3-methylbutyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester, are useful as sweeteners. The sweeteners have low caloric values and more sweet than conventional ones.

RE.CNT 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Novel aspartyl dipeptide ester derivatives as sweeteners

AN 2000:15228 CAPLUS

DN 132:63481

TI Novel aspartyl dipeptide ester derivatives as sweeteners

IN Amino, Yusuke; Yuzawa, Kazuko; Takemoto, Tadashi; Nakamura, Ryoichiro

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000000508	A1	20000106	WO 1999-JP3050	19990607
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

				JP 1998-180204 A 19980626
	CA 2336133	AA	20000106	CA 1999-2336133 19990607
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607
	AU 9940602	A1	20000117	AU 1999-40602 19990607
	AU 752473	B2	20020919	
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607
	EP 1088829	A1	20010404	EP 1999-923954 19990607
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, RO			
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607
	BR 9911551	A	20011009	BR 1999-11551 19990607
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607
	NZ 508579	A	20021025	NZ 1999-508579 19990607
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607
	RU 2192430	C2	20021110	RU 2001-2001102399 19990607
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607
	NO 2000006627	A	20010212	NO 2000-6627 20001222
				JP 1998-180204 A 19980626
				WO 1999-JP3050 W 19990607

OS MARPAT 132:63481

AB The Markush structure of the aspartyl dipeptide ester derivs. (including salts thereof) are given, and the example is N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl]-L-(.alpha.-methyl)phenylalanine 1-Me ester. These compds. are low-calorie sweeteners and are sweeter than conventional ones.

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2003 ACS

TI Preparation of aspartyl dipeptide ester derivatives as sweeteners

AN 1999:672857 CAPLUS

DN 131:272186

TI Preparation of aspartyl dipeptide ester derivatives as sweeteners

IN Amino, Yusuke; Yuzawa, Kazuko; Takemoto, Tadashi; Nakamura, Ryoichiro

PA Ajinomoto Co., Inc., Japan

SO PCT Int. Appl., 36 pp.
CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9952937	A1	19991021	WO 1999-JP1210	19990311
	W: AU, BR, BY, CA, CN, CZ, HU, IL, IN, JP, KR, MX, NO, NZ, PL, RO, RU, SK, TR, UA, US, VN				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
				JP 1998-97701 A	19980409
				JP 1999-38190 A	19990217
	CA 2327938	AA	19991021	CA 1999-2327938	19990311
				JP 1998-97701 A	19980409
				JP 1999-38190 A	19990217

				WO 1999-JP1210 W 19990311
AU 9941184	A1	19991101	AU 1999-41184	19990311
AU 753110	B2	20021010		
			JP 1998-97701 A	19980409
			JP 1999-38190 A	19990217
			WO 1999-JP1210 W	19990311
BR 9909542	A	20001226	BR 1999-9542	19990311
			JP 1998-97701 A	19980409
			JP 1999-38190 A	19990217
			WO 1999-JP1210 W	19990311
EP 1070726	A1	20010124	EP 1999-932431	19990311
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, RO				
			JP 1998-97701 A	19980409
			JP 1999-38190 A	19990217
			WO 1999-JP1210 W	19990311
RU 2179979	C1	20020227	RU 2000-200012801219990311	
			JP 1998-97701 A	19980409
			JP 1999-38190 A	19990217
			WO 1999-JP1210 W	19990311
NZ 507938	A	20021126	NZ 1999-507938	19990311
			JP 1998-97701 A	19980409
			JP 1999-38190 A	19990217
			WO 1999-JP1210 W	19990311
ZA 9902566	A	19991012	ZA 1999-2566	19990407
			JP 1998-97701 A	19980409
NO 2000004979	A	20001107	NO 2000-4979	20001003
			JP 1998-97701 A	19980409
			JP 1999-38190 A	19990217
			WO 1999-JP1210 W	19990311

OS MARPAT 131:272186

AB Novel aspartyl dipeptide ester derivs. (including those in the form of a salt) having an excellent sweetening effect and usable as sweeteners such as N-[N-[3-(3-methyl-4-hydoxyphenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester and N-[N-[3-(3-hydroxy-4-methoxyphenyl)propyl]-L-.alpha.-aspartyl]-L-phenylalanine 1-Me ester (I) are prepd. Thus, I was prepd. from N-tert-butoxycarbonyl-.beta.-O-benzyl-.alpha.-L-aspartyl-L-phenylalanine Me ester and 3-benzyloxy-4-methoxycinnamaldehyde. I was 20,000-times sweeter than sucrose.

RE.CNT 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.34	244.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.16	-9.11

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 07:25:13 ON 14 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 07:39:28 ON 14 MAR 2003
FILE 'CAPLUS' ENTERED AT 07:39:28 ON 14 MAR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.34	244.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.16	-9.11

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ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	35.34	244.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-7.16	-9.11

STN INTERNATIONAL LOGOFF AT 07:39:39 ON 14 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

STNLOGON timed out

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 Apr 08 "Ask CAS" for self-help around the clock
NEWS 3 Apr 09 BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4 Apr 09 ZDB will be removed from STN
NEWS 5 Apr 19 US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6 Apr 22 Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7 Apr 22 BIOSIS Gene Names now available in TOXCENTER
NEWS 8 Apr 22 Federal Research in Progress (FEDRIP) now available
NEWS 9 Jun 03 New e-mail delivery for search results now available
NEWS 10 Jun 10 MEDLINE Reload
NEWS 11 Jun 10 PCTFULL has been reloaded
NEWS 12 Jul 02 FOREGE no longer contains STANDARDS file segment
NEWS 13 Jul 22 USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14 Jul 29 Enhanced polymer searching in REGISTRY
NEWS 15 Jul 30 NETFIRST to be removed from STN
NEWS 16 Aug 08 CANCERLIT reload
NEWS 17 Aug 08 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18 Aug 08 NTIS has been reloaded and enhanced
NEWS 19 Aug 19 Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20 Aug 19 IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21 Aug 19 The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22 Aug 26 Sequence searching in REGISTRY enhanced
NEWS 23 Sep 03 JAPIO has been reloaded and enhanced
NEWS 24 Sep 16 Experimental properties added to the REGISTRY file
NEWS 25 Sep 16 CA Section Thesaurus available in CAPLUS and CA
NEWS 26 Oct 01 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 27 Oct 21 EVENTLINE has been reloaded
NEWS 28 Oct 24 BEILSTEIN adds new search fields
NEWS 29 Oct 24 Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 30 Oct 25 MEDLINE SDI run of October 8, 2002
NEWS 31 Nov 18 DKILIT has been renamed APOLLIT
NEWS 32 Nov 25 More calculated properties added to REGISTRY
NEWS 33 Dec 02 TIBKAT will be removed from STN
NEWS 34 Dec 04 CSA files on STN
NEWS 35 Dec 17 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 36 Dec 17 TOXCENTER enhanced with additional content
NEWS 37 Dec 17 Adis Clinical Trials Insight now available on STN
NEWS 38 Dec 30 ISMEC no longer available
NEWS 39 Jan 13 Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 40 Jan 21 NUTRACEUT offering one free connect hour in February 2003
NEWS 41 Jan 21 PHARMAML offering one free connect hour in February 2003
NEWS 42 Jan 29 Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS 43 Feb 13 CANCERLIT is no longer being updated
NEWS 44 Feb 24 METADEX enhancements
NEWS 45 Feb 24 PCTGEN now available on STN
NEWS 46 Feb 24 TEMA now available on STN
NEWS 47 Feb 26 NTIS now allows simultaneous left and right truncation
NEWS 48 Feb 26 PCTFULL now contains images
NEWS 49 Mar 04 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 50 Mar 19 APOLLIT offering free connect time in April 2003

NEWS EXPRESS January 6 CURRENT WINDOWS VERSION IS V6.01a,
CURRENT MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 14:13:48 ON 20 MAR 2003

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'CAPLUS' ENTERED AT 14:14:15 ON 20 MAR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 20 Mar 2003 VOL 138 ISS 12
FILE LAST UPDATED: 19 Mar 2003 (20030319/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> aspartame derivative
2806 ASPARTAME
6 ASPARTAMES
2806 ASPARTAME
(ASPARTAME OR ASPARTAMES)
40677 DERIVATIVE
299553 DERIVATIVES
338443 DERIVATIVE
(DERIVATIVE OR DERIVATIVES)

```
        547977 DERIV
        912754 DERIVS
       1238782 DERIV
                 (DERIV OR DERIVS)
       1340774 DERIVATIVE
                 (DERIVATIVE OR DERIV)
L1           36 ASPARTAME DERIVATIVE
                 (ASPARTAME(W)DERIVATIVE)

=> solubility
         53300 SOLUBILITY
         19345 SOLUBILITIES
         65619 SOLUBILITY
                 (SOLUBILITY OR SOLUBILITIES)
        190561 SOLY
             1 SOLIES
        190561 SOLY
                 (SOLY OR SOLIES)
L2      207615 SOLUBILITY
                 (SOLUBILITY OR SOLY)

=> l1 and l2
L3            2 L1 AND L2

=> d l3 1-2 ti

L3   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Novel aspartame derivative crystal and process for
     producing the same

L3   ANSWER 2 OF 2  CAPLUS  COPYRIGHT 2003 ACS
TI   Novel aspartame derivative crystal and process for
     producing the same


=> aspartame
          2806 ASPARTAME
             6 ASPARTAMES
L4        2806 ASPARTAME
                 (ASPARTAME OR ASPARTAMES)

=> l4 and l2
L5           92 L4 AND L2

=> d l5 82-92 ti

L5   ANSWER 82 OF 92  CAPLUS  COPYRIGHT 2003 ACS
TI   The physicochemical properties of .alpha.-sweet

L5   ANSWER 83 OF 92  CAPLUS  COPYRIGHT 2003 ACS
TI   Aspartame-mannitol resolidified fused mixture:  characterization
     studies by differential scanning calorimetry, thermomicroscopy,
     photomicrography and x-ray diffractometry

L5   ANSWER 84 OF 92  CAPLUS  COPYRIGHT 2003 ACS
TI   Dipeptide sweetener-metal complexes

L5   ANSWER 85 OF 92  CAPLUS  COPYRIGHT 2003 ACS
TI   Artificial sweetener tablets
```

L5 ANSWER 86 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI **Solubility** improvement in dipeptide sweeteners

L5 ANSWER 87 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI **Aspartame** administration to the infant monkey: hypothalamic morphology and plasma amino acid levels

L5 ANSWER 88 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI **Aspartame**: a commercially feasible aspartic acid based sweetener

L5 ANSWER 89 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Concentrated liquid low calorie sweetener

L5 ANSWER 90 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Sweetener solution containing saccharin and **aspartame**

L5 ANSWER 91 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Easily dispersible, nonfoaming low-calorie sweetener

L5 ANSWER 92 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Cereal sweetening

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.35	13.56

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:18:07 ON 20 MAR 2003

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1623paz

PASSWORD:
* * * * * * RECONNECTED TO STN INTERNATIONAL * * * * * *
SESSION RESUMED IN FILE 'CAPLUS' AT 14:38:46 ON 20 MAR 2003
FILE 'CAPLUS' ENTERED AT 14:38:46 ON 20 MAR 2003
COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.77	13.98

=> d his

(FILE 'HOME' ENTERED AT 14:13:48 ON 20 MAR 2003)

FILE 'CAPLUS' ENTERED AT 14:14:15 ON 20 MAR 2003
L1 36 ASPARTAME DERIVATIVE
L2 207615 SOLUBILITY
L3 2 L1 AND L2
L4 2806 ASPARTAME

L5 92 L4 AND L2

=> d l5 71-81 ti

L5 ANSWER 71 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Manufacture of **aspartame**-containing beverages

L5 ANSWER 72 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Preparation of type 1 **aspartame** crystals with improved dissolution properties

L5 ANSWER 73 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Process for producing alpha-l-aspartyl-l-phenylalanine methyl ester having an improved **solubility**

L5 ANSWER 74 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Applications of **aspartame** in soft drinks

L5 ANSWER 75 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Effect of sucrose, fructose and **aspartame** on fortificant iron **solubility** in a wheat flake cereal

L5 ANSWER 76 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Incorporation of **aspartame** in sugar-containing food

L5 ANSWER 77 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Readily soluble **aspartame** tablets

L5 ANSWER 78 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Readily soluble **aspartame** sweeteners

L5 ANSWER 79 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Artificially sweetened beverage mixes

L5 ANSWER 80 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Enhanced-**solubility aspartame** compounds

L5 ANSWER 81 OF 92 CAPLUS COPYRIGHT 2003 ACS
TI Stable dipeptide sweetener crystals and tablets containing the crystals

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.53	17.74

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 14:39:39 ON 20 MAR 2003